# NOAA Climate Science & Services Monthly Climate Update

## Peering back at July ... looking ahead through October

#### **Deke Arndt**

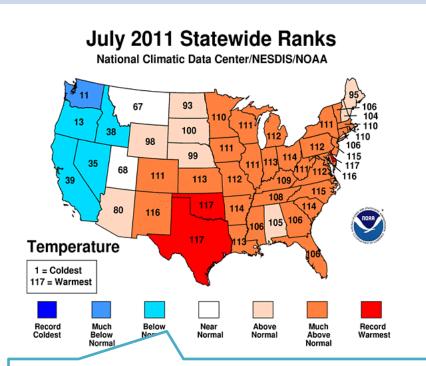
Chief, Climate Monitoring Branch, NOAA's National Climactic Data Center



#### Ed O'Lenic

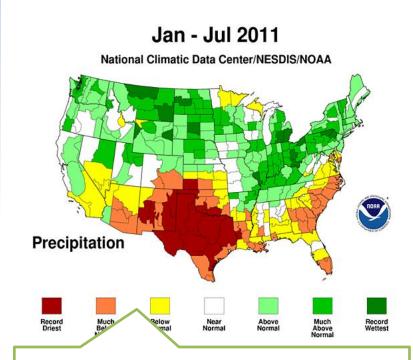
Chief, Operations Branch, NOAA's Climate Prediction Center

## July 2011 at a Glance



#### 4th Warmest July on Record

- 77.0F Nationally averaged temperature
- Oklahoma and Texas had their warmest months on record
- Oklahoma, July 2011: warmest month of any state, any month, on record.



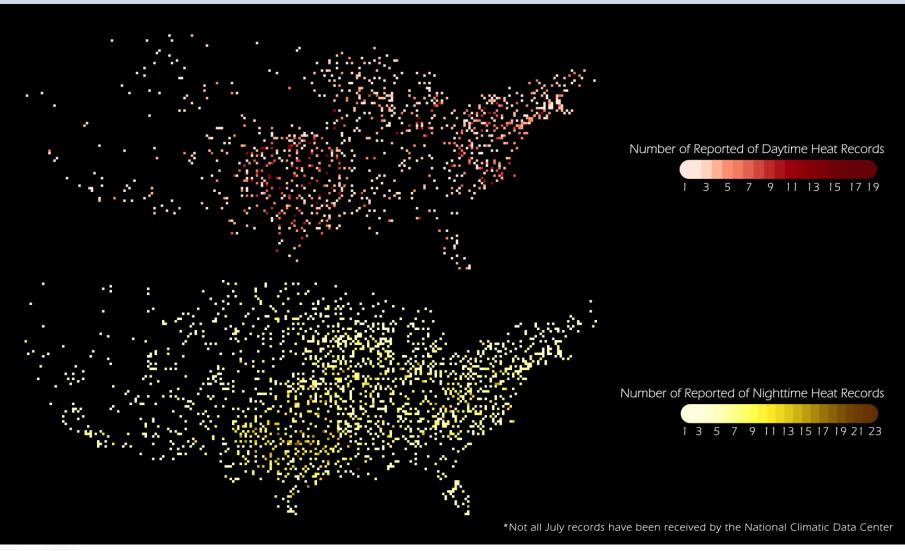
#### July: Below Normal National Precipitation

- Year to date precipitation is the lowest on record for New Mexico and Texas
- Drought continues in southern United States





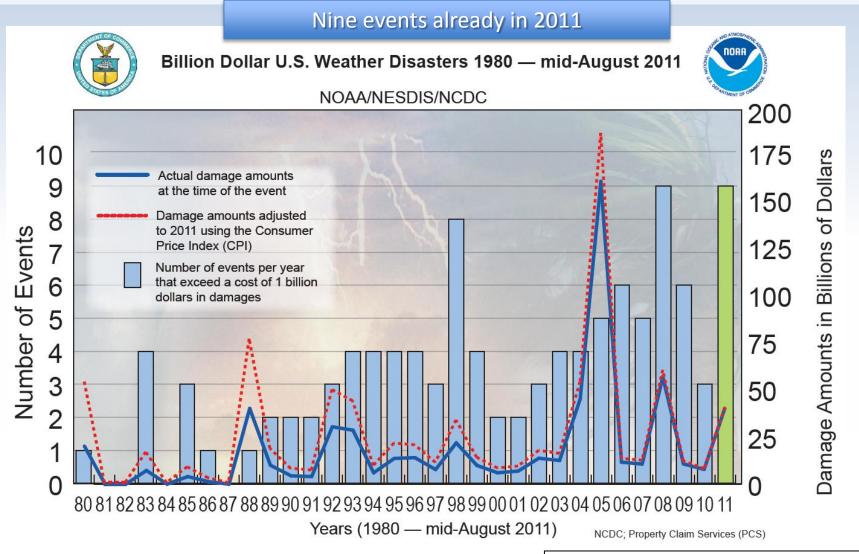
## Daily Heat Records: July 2011







#### Billion Dollar Weather Disasters



Source: www.ncdc.noaa.gov/oa/reports/billionz.html

August 18, 2011

Note: 2011 figures based on preliminary information



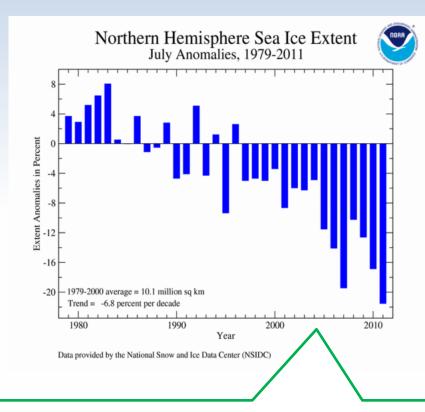


### **Global Climate Highlights**

## 7<sup>th</sup> Warmest July and 11th Warmest year-to-date on record same ranks as June Temperature Anomalies July 2011 (with respect to a 1971-2000 base period) National Climatic Data Center/NESDIS/NOAA Degrees Celsius

#### **Streaks**

- 35<sup>th</sup> consecutive July with global temperature above its 20<sup>th</sup> Century average (streak began July 1977)
- 317<sup>th</sup> consecutive month with temperature above its 20<sup>th</sup> Century average (streak began March 1985)



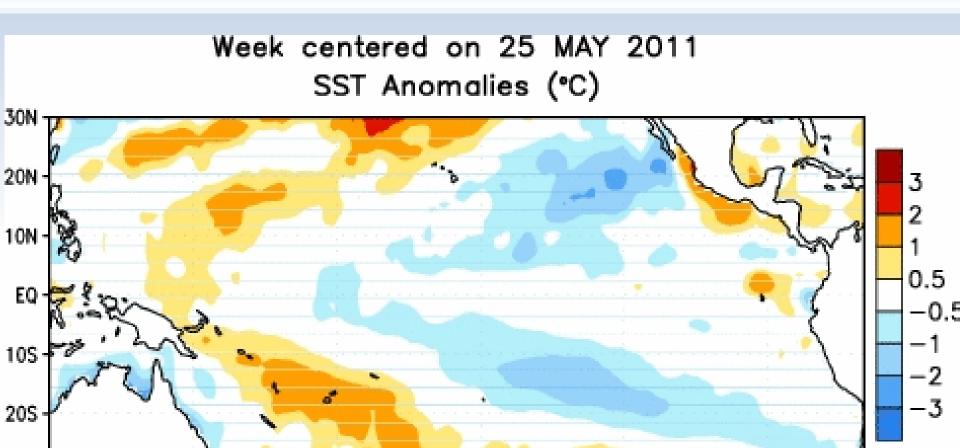
#### **Arctic Sea Ice:**

Monthly Climate Webinar

- July 2011 Arctic sea ice extent was the smallest on record for July, 2.18 million square km smaller than the 1979-2000 average.
- Broke the previous July record by 210,000 square km approximately the size of Kansas.









30S 120E



150E

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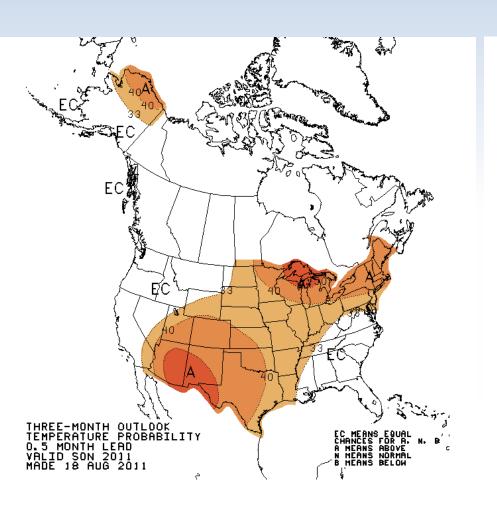
150W

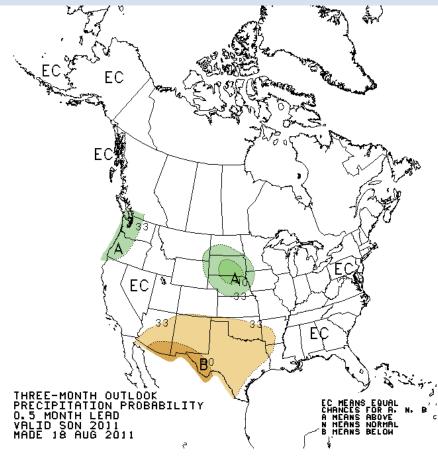
180

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120W

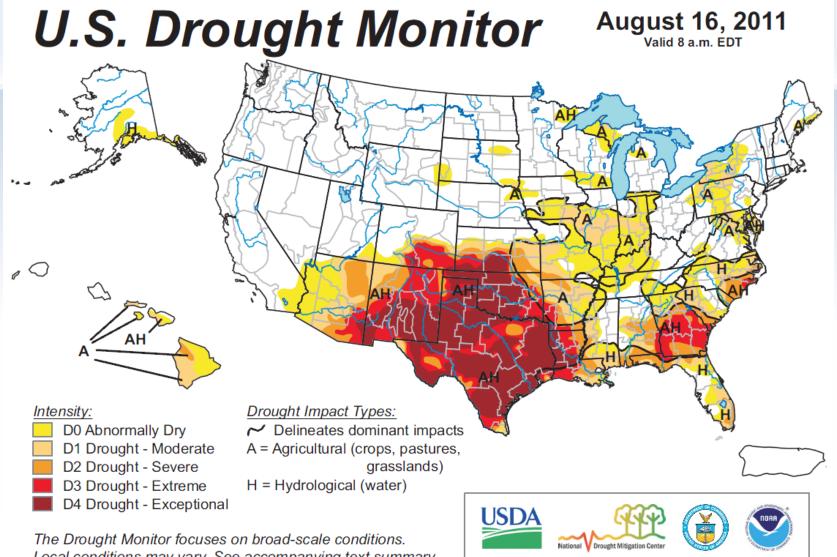
### CPC 3-Month Outlooks for September-October-November 2011











Local conditions may vary. See accompanying text summary for forecast statements.

http://drought.unl.edu/dm



Released Thursday, August 18, 2011 Author: Laura Edwards, Western Regional Climate Center





#### For More Information



- NOAA's National Climatic Data Center: www.ncdc.noaa.gov
  - Monthly climate reports (U.S. & Global)): www.ncdc.noaa.gov/sotc/
  - Billion dollar U.S. weather disasters: www.ncdc.noaa.gov/oa/reports/billionz.html
- NOAA's Climate Prediction Center: www.cpc.ncep.noaa.gov
- U.S. Drought Monitor: www.drought.gov
- Climate Portal: www.climate.gov
- PDF of this presentation:

www1.ncdc.noaa.gov/pub/data/cmb/sotc/webinars/NOAA\_Climate \_Webinar\_August\_2011.pdf



